

CPC**COOPERATIVE PATENT CLASSIFICATION****C23D**

ENAMELLING OF, OR APPLYING A VITREOUS LAYER TO, METALS (
chemical composition of the enamels [C03C](#))

C23D 1/00

Melting or fritting the enamels ; Apparatus or furnaces therefor

C23D 1/02

. Granulating the melt ; Drying the granules

Guidance heading: Coating with the enamels

C23D 3/00

Chemical treatment of the metal surfaces prior to coating (cleaning and de-greasing of metallic objects [C23G](#))

C23D 5/00

Coating with enamels or vitreous layers { (including applying fused refractory layers [C23C 4/10](#) , [C23C 24/10](#)) }

C23D 5/005

. { by a method specially adapted for coating special objects }

C23D 5/02

. by wet methods

C23D 5/04

. by dry methods

C23D 5/06

. producing designs or letters

C23D 5/08

. Applying enamels non-uniformly over the surface

C23D 5/10

. with refractory materials

NOTE

Group [C23D 5/10](#) is no longer used for classification. Documents are in the state of being reclassified to [C23C 4/10](#) and [C23C 24/10](#) .

C23D 7/00

Treating the coatings, e.g. drying before burning

Guidance heading: Firing the enamels

C23D 9/00

Ovens specially adapted for firing enamels

C23D 9/02

. Non-electric muffle furnaces

C23D 9/04

. Non-electric tunnel ovens

C23D 9/06

. Electric furnaces

C23D 9/08 . Supporting devices for burning-bars

C23D 9/10 . Loading or unloading devices

C23D 11/00 Continuous processes ; Apparatus therefor

Guidance heading: After-treatment

C23D 13/00 After-treatment of the enamelled articles

C23D 13/02 . Removing defects by local re-melting of the enamel ; Adjusting the shape

C23D 15/00 Joining enamelled articles to other enamelled articles by processes involving an enamelling step

C23D 17/00 De-enamelling